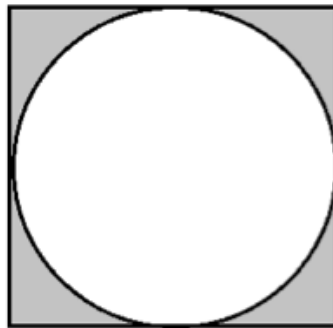


Test Review Warm-Up

Q2 Material

1. If the diameter of a circle is 22 cm., what is the radius? Find the area and circumference of the circle.
2. Which two 3-D shapes have triangular cross-sections when sliced parallel to the base? Draw them.
3. Why is a cylinder NOT considered to be a PRISM? Can you draw a cylinder?
4. A circle is within a square that is 14 cm. by 14 cm, as shown below. Find the area of the square. What is the area of the circle? What is the area of the shaded portion?



Let's Review:

π

Area of a circle:

$$A = \pi r^2$$

Move for
Formula

Circumference of a circle:

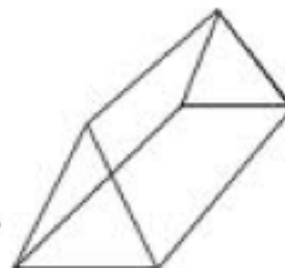
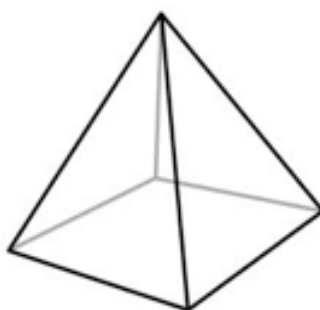
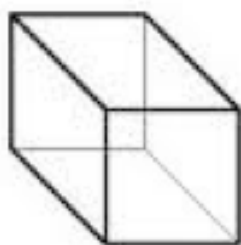
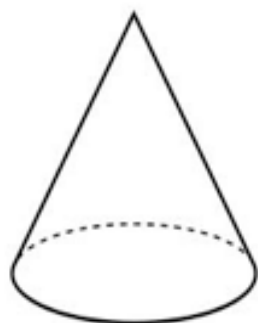
$$C = \pi d$$

Move for
Formula

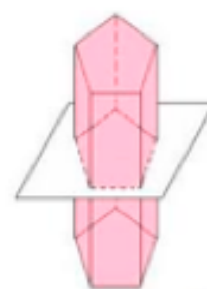
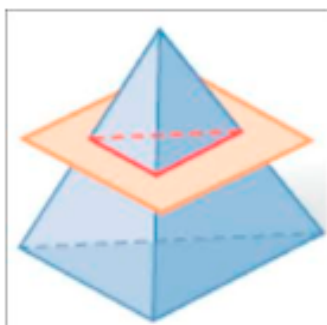
How can you tell what the cross-section of a 3-Dimensional shape would look like if you cut the shape parallel to the base?

How can you tell what the cross-section of a 3-Dimensional shape would look like if you cut the shape perpendicular to the base?

1. Name the cross-sections of the following shapes when cut parallel and perpendicular to the base. Also, name the 3-Dimensional shape.



2. Describe the shape of the cross-sections shown below.



3. Tell me what cross-sections would be impossible for the following shapes:

- a. Triangular Prism b. Rectangular Prism
- c. Cone

4. How many different triangles can be made with the angle measures of 40° , 60° , and 80° ?

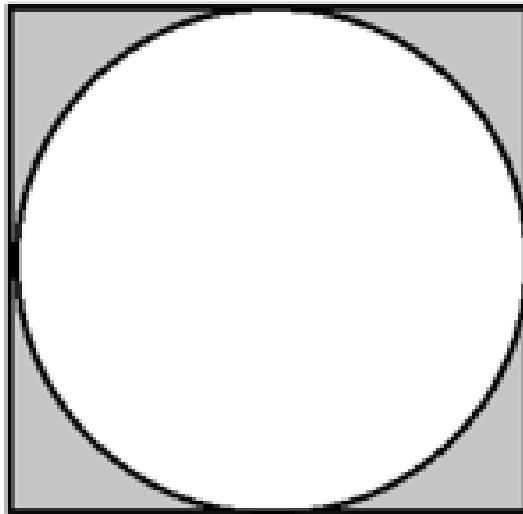
5. Can a triangle be formed with the side lengths of 6cm, 9cm, and 10 cm? Explain why or why not.

6. A ferris wheel has a diameter of 50 ft. Find the area and circumference of the ferris wheel.

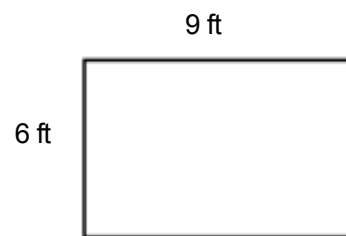
7. A circular stone is sitting in a garden. The radius of the stone is 6 in. Find the area and circumference of the stone.

8. A circular patio has an area of ft^2 . Find the circumference of the patio.

9. The circle below is inscribed within a square. The square has a width of 13 ft. Find the area of the shaded region.



10. Jerry has a rectangular garden at his house with the dimensions shown below.



Jerry wants a larger garden and decides to double all of the dimensions.

After he doubles all of the dimensions, what is the area of his new rectangular garden? **Show your work.**

